

### ABSTRACT

An improved, lightweight, portable, and self-contained concrete form for fabricating tilt-up concrete walls is provided. The form includes a frame made from metal frame members joined at their ends with the frame members forming the sides of the frame.

5 The frame members may be channel shaped with their channels facing inwardly. A reinforcing mat comprising an array of crisscrossed rebars is disposed within the frame and is held in place with a plurality of brackets on the ends of at least some of the rebars and welded to respective frame members. The rebar

10 mat is sized to be positioned in the mid portion of the frame and the brackets on the ends of the rebars are slid outwardly into and attached to the frame members by spot welding. The brackets are then spot welded to the ends of their rebars to form a rigid, lightweight concrete frame. The frame may be shipped to a job

15 site, laid on a casting surface, and filled with concrete, When the concrete cures, the resulting concrete wall, form and all, is tilted-up into place with a crane and attached to form a section of a concrete wall.